FURUNO

MF/HF

MF/HF Radiotelephone



Models:

FS-1575 (150 W)

FS-2575 (250 W)

FS-5075 (500 W)

www.furuno.com

MF/HF Radiotelephone

Reliable MF/HF Radiotelephone for general and distress communications with integrated DSC/DSC Watch Receiver



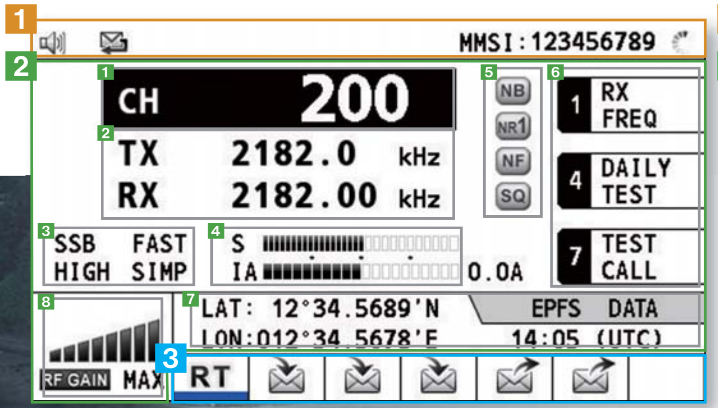
Models: FS-1575 (150 W)
FS-2575 (250 W)
FS-5075 (500 W)

- MF/HF radiotelephone with DSC facility
- Fully meets GMDSS carriage requirements for SOLAS ships operating in A2, A3 and A4 sea areas
- Meets the new ITU recommendation on digital selective calling system for use in the Maritime Mobile Service, ITU-R M.493-13
- High-contrast 4.3" bright color LCD (480x272 pixels)
- Capable of distress, safety and routine communication
- Instant selection of 256 user-specified channels with a rotary knob or direct keypad input
- Quick access to DSC message composition by dedicated keys on the control unit
- Full-duplex kit available (optional supply for the FS-5075 only)
- Quick access to dedicated functions in the menu operation using numeric keypad

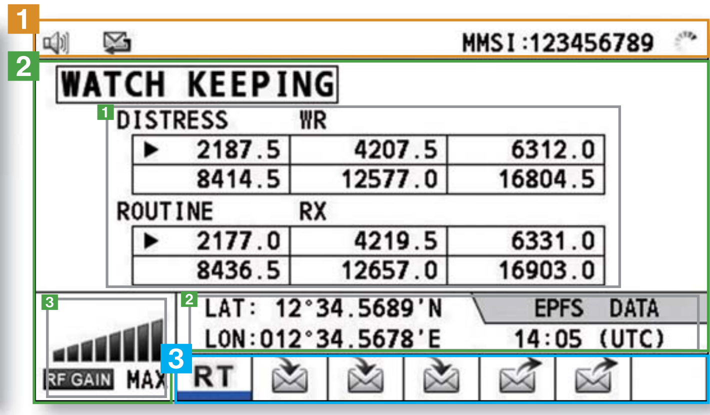
High-contrast 4.3" bright color LCD

Display Modes

Radiotelephone display



DSC SCAN display





1 Status segment

Indicating the status of equipment, i.e., speaker ON/OFF, unread DSC message in the inbox, hardware error, etc. Also, MMSI is shown in radiotelephone and DSC scan displays.

2 Information segment

Displaying:

1. user channel selected
2. operating frequencies
3. class of emission, AGC, output power and communication mode
4. signal strength, meter reading (IC, VC, RF, VS and IA (antenna current))
5. currently activated functions, i.e., noise blanker, etc.
6. short-cut functions assigned for 1, 4 and 7 on the numeric keypad
7. own ship L/L, Time
8. indications of RF input attenuator ON/OFF as well as RF gain

2 Information segment

Displaying:

1. DSC watch frequencies (both distress and routine)
2. own ship L/L, Time
3. indications of RF input attenuator ON/OFF as well as RF gain

3 Tab segment

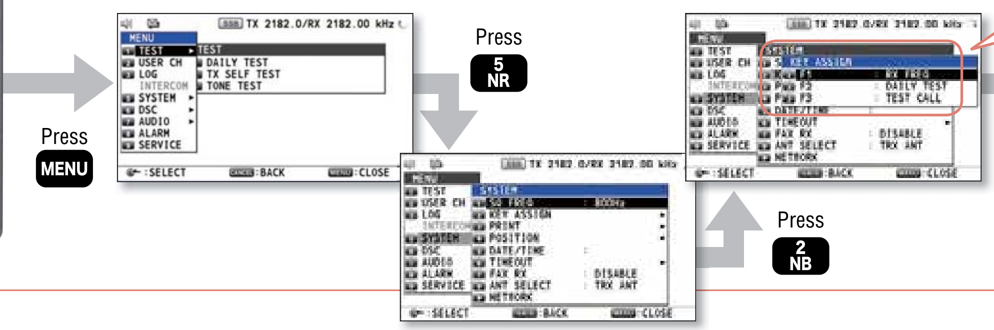
Up to 7 active procedures can be displayed in this segment. The procedures are for operating: radiotelephone, distress alert trans
general DSC message transmission and general DSC message reception.

Quick-access functions

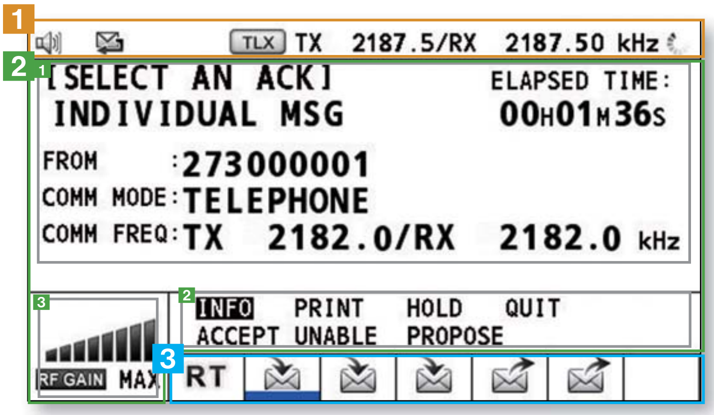


Quick-access functions

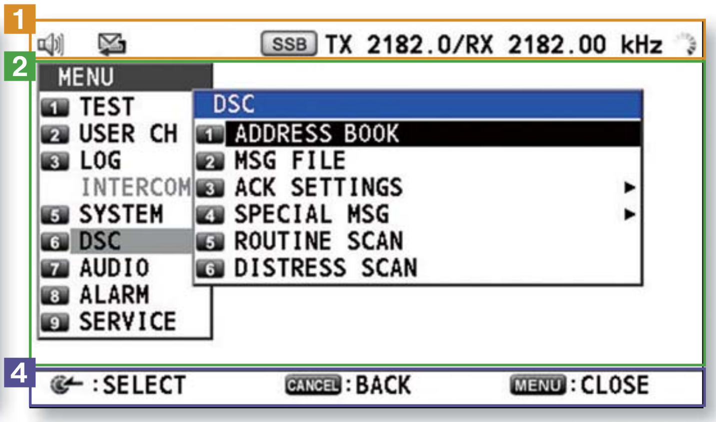
On the menu setting, three quick-access functions can be assigned for 1, 4 and 7 on the numeric keypad, and those assigned functions are displayed on the Radiotelephone display. The list of functions assigned for quick-access includes: TX frequency setting, RX frequency setting, class of emission setting, AGC setting, output power setting, TX frequency monitoring, showing the list of test messages, showing the list of message files, execusion of daily test, showing the list of log files, and intercom functions.



DSC display



Menu display



1 Status segment

Indicating status of equipment, i.e., speaker ON/OFF, unread DSC message in the inbox, hardware error, etc., TX/RX frequencies/class of emission for successive communication.

2 Information segment

Displaying:

1 DSC contents, status and information

2 a list of available operator actions

3 indications of RF input attenuator ON/OFF as well as RF gain

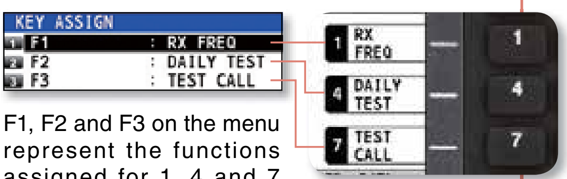
2 Information segment

Displaying menu tree

smission, distress alert reception,

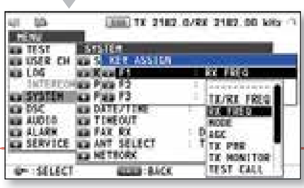
4 Guide segment

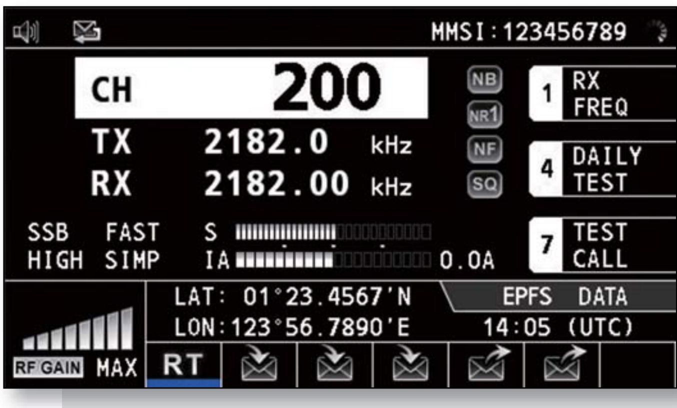
Guide to short-cut key functions is displayed.



F1, F2 and F3 on the menu represent the functions assigned for 1, 4 and 7 on the numeric keypad, respectively.

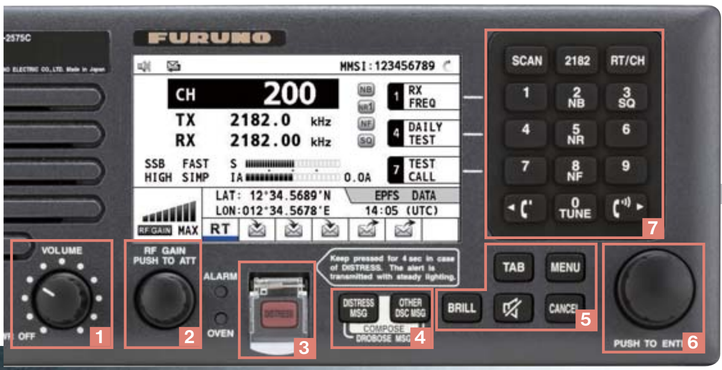
Press 1





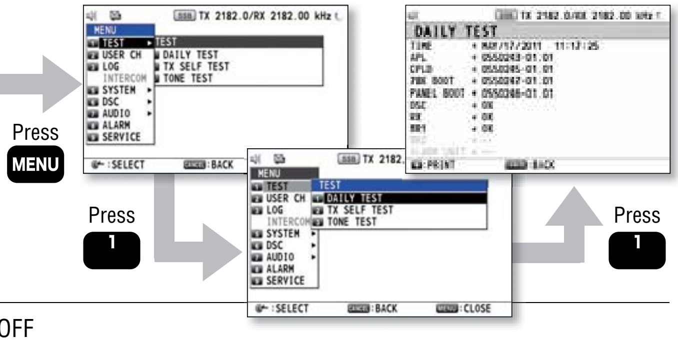
Night Mode

Night mode is selectable for wheelhouse operation.



Simplified menu operation

Numbers are assigned for each of the menu items, and the operator can access each of the menu items either by turning and pressing PUSH TO ENTER knob to select menu items or simply pressing number on the numeric keypad.



1 Volume/Power knob :	Sound volume control/Switching of Power ON/OFF
2 RF GAIN knob :	Adjustment of reception gain
PUSH TO ATT :	Press to activate/deactivate RF attenuator
3 DISTRESS :	Long-press to transmit a DSC distress alert
4 DISTRESS MSG :	Composition of DSC message for distress alert
OTHER DSC MSG :	Composition of DSC message except for distress alert and DROBOSE (DSC relay on behalf of someone else*)
Press DISTRESS MSG + OTHER DSC MSG :	Composition of DSC message for DROBOSE
5 BRILL :	Activation of the brilliance control dialog box
TAB :	Activation of tab segment control on the screen
MENU :	Opening/closing of the menu dialog box
CANCEL :	Deactivates alarm/deletion of error and pop-up messages/halting of DSC message composition/exiting from the message composition dialog box/distress cancellation/returning to a previous menu level
(speaker mute key) :	Switching the speaker ON/OFF
6 PUSH TO ENTER knob :	Shifts the selector and pointer/adjusts the degree of parameter, i.e., brilliance and switch over the display mode
	Press to confirm the entered values
7 SCAN :	Switches to the DSC SCAN mode/if pressed during the DSC SCAN mode, routine scan will be halted
2182 :	Sets to 2182 kHz SSB
RT/CH :	Switches to radiotelephone mode, and if pressed in radiotelephone mode, channel setting box will be summoned
1 :	Used to enter the following number and symbols (. @ - _ / : 1) as well as quick access to short cut function
2 NB :	Used to enter A, B, C and 2, and to switch noise blanker setting ON/OFF
3 SQ :	Used to enter D, E, F and 3, and to switch squelch setting ON/OFF
4 :	Used to enter G, H, I and 4 as well as quick access to short cut function
5 NR :	Used to enter J, K, L and 5, and to switch noise reduction setting ON/OFF
6 :	Used to enter M, N, O and 6
7 :	Used to enter P, Q, R, S and 7 as well as quick access to short cut function
8 NF :	Used to enter T, U, V and 8, and to switch notch filter ON/OFF
9 :	Used to enter W, X, Y, Z and 9
◄ (handset volume down) :	Used to reduce the receiver volume of the handset/to shift the pointer in channel/frequency selection dialog box
0 TUNE :	Used to enter the number “0” , space and the following symbols (! “ # $ % & ‘ ( ) * + , - . / : ; < = > ? @ [\ ] ^ - `{ } ~)/ to tune impedance between an antenna and a transceiver
(handset volume up) ► :	Used to raise the receiver volume of the handset/to shift the pointer in channel/frequency selection dialog box

* composition and relay of the occurrence of a distress event obtained by non-DSC means

SPECIFICATIONS

MODEL	FS-1575	FS-2575	FS-5075
PRODUCT NAME	SSB RADIOTELEPHONE		

GENERAL CHARACTERISTICS

		FS-1575	FS-2575	FS-5075
Rules and Regulations		ITU-R M.1082-1, ITU-R M.1173, ITU-R M.476-5, ITU-R M.490, ITU-R M.491-1, ITU-R M.492-6, ITU-R M.493-13, ITU-R M.541-9, ITU-R M.625-3, ITU-R M.821-1, IMO Res. A.694(17), IMO Res. A.806(19), IMO Res. MSC36 (63), IMO Res. MSC 68 (68), MSC/Circ. 862, IEC 61162-1 Ed. 4, IEC60945 Ed. 4, ETS 300 067 ed. 1, EN 300 338-1 V1.3.1, EN 300 338-2 V1.3.1, EN 301 033 V1.3.1, EN 300 373-1 V1.3.1		
Frequency Range	TX:	1605.0kHz to 27500.0kHz		
	RX:	100kHz to 29999.99kHz		
Number of Channels		256 user-specified channels plus ITU, SSB/TELEX channels		
Communication Mode		Simplex/Semi-duplex		Simplex/Semi-duplex/Duplex (option)
Class of Emission		J3E, H3E, A1A, J2B		

TRANSCEIVER

	FS-1575	FS-2575	FS-5075
RF Output Power	150 W pep	250 W pep	500 W pep (HF) / 400 W pep (MF)
Antenna	10-18 m whip or wire		
Tuning Speed	within 15 sec		
Receiver Sensitivity	less than +7 dBμV (4.0-29.99999 MHz, J3E) / less than +13 dBμV (1.6-4 MHz, J3E)		

DSC

Receiving Frequency	General	All DSC frequencies in MF/HF
	Distress and safety	DSC distress/safety frequencies: 2187.5 kHz, 4207.5 kHz, 6312.0 kHz, 8414.5 kHz, 12577.0 kHz, 16804.5 kHz
Message Storage	TX:	50 distress messages, plus 50 non-distress messages
	RX:	50 messages, telephone no., frequencies, etc.

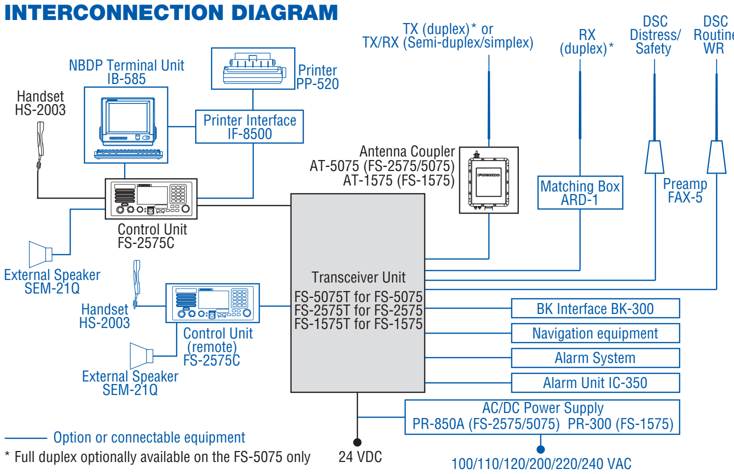
POWER SUPPLY

	FS-1575	FS-2575	FS-5075
POWER SUPPLY	24 VDC, 100/110/120/200/220/240 VAC with optional AC/DC Power Supply PR-850A (FS-2575/5075) / PR-300 (FS-1575)		
	20 A (TX), 5.0 A (RX)	40 A (TX), 5.0 A (RX)	60 A (TX), 5.0 A (RX)

EQUIPMENT LIST

	No.	Item	Type	Qty
Standard	1	Transceiver Unit	FS-1575T (FS-1575), FS-2575T (FS-2575), FS-5075T (FS-5075)	1 Unit
	2	Control Unit	FS-2575C	1 Unit
	3	Handset	HS-2003	1 Unit
	4	Antenna Coupler	AT-5075 (FS-2575/5075) AT-1575 (FS-1575)	1 Unit
Option	1	Printer	PP-520	
	2	Printer Interface	IF-8500	
	3	External Speaker	SEM-21Q	
	4	Control Unit	FS-2575C	
	5	NBDP Terminal Unit	IB-585	
	6	BK Interface	BK-300	
	7	Whip Antenna		
	8	AC/DC Power Supply	PR-850A (FS-2575/5075) PR-300 (FS-1575)	
	9	Full Duplex Kit (for FS-5075)	OP05-125	
	10	Matching Box	ARD-1	
	11	Preamp	FAX-5	
	12	WR2 kit	OP05-123	

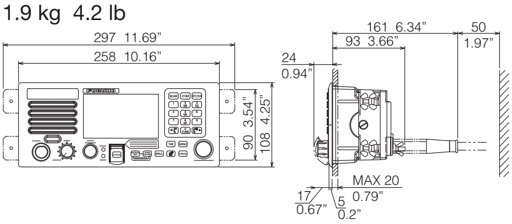
INTERCONNECTION DIAGRAM



* Full duplex optionally available on the FS-5075 only

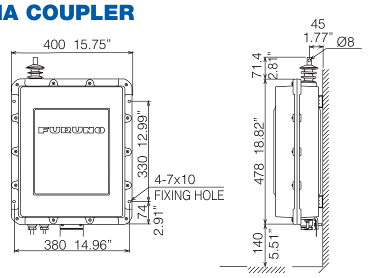
CONTROL UNIT

FS-2575C
1.9 kg 4.2 lb

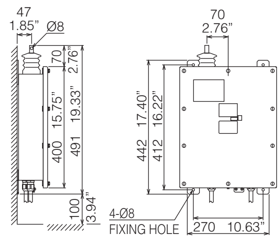


ANTENNA COUPLER

AT-5075
8.5 kg
18.7 lb

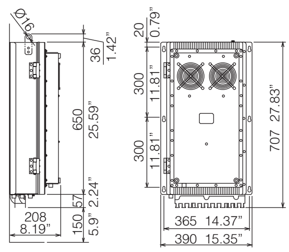


AT-1575
2.6 kg
5.7 lb

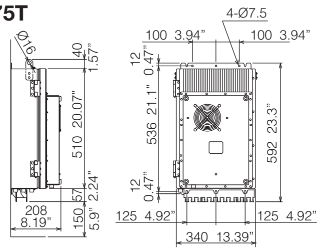


TRANSCEIVER UNIT

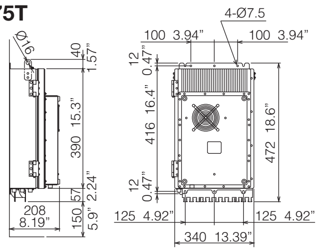
FS-5075T
27 kg
59.5 lb



FS-2575T
20 kg
44.1 lb

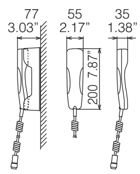


FS-1575T
16 kg
35.3 lb



HANDSET

HS-2003
0.5 kg
1.2 lb



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